

THE SOLARSHELTER

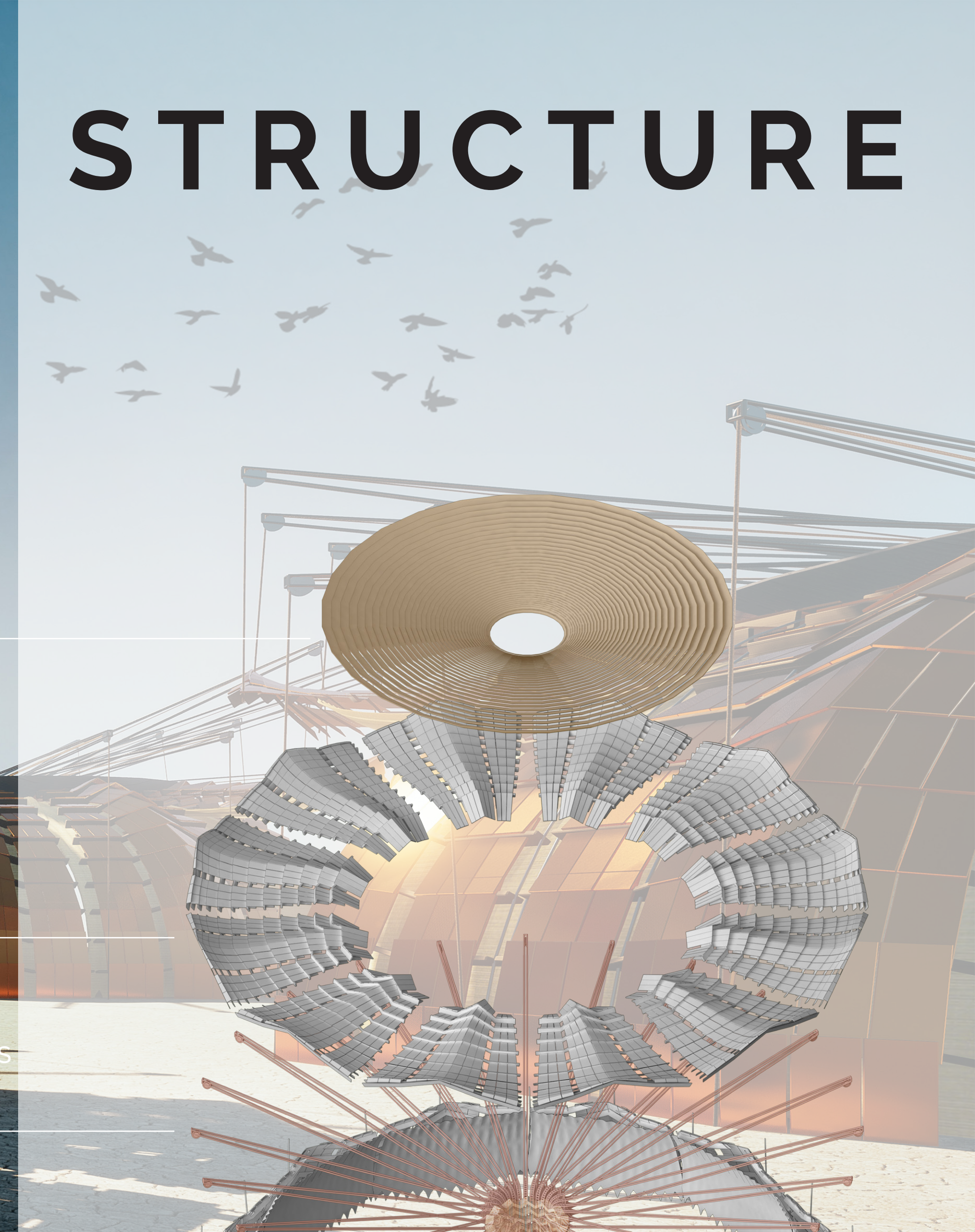
STRUCTURE



VENTILATION COVER

PETAL UNIT/
organic solar cells
5 x 5,6 m
height 6 m

STRUCTURAL CRANES
10 m
height 8 m



FUNDAMENTALLY, THIS STRUCTURE IS INTENDED AS A PORTABLE AND RESILIENT INSTALLATION, LIKE THE PAIUTE INDIANS, THAT USED TO MIGRATE ACCORDING TO THEIR IMMEDIATE NEEDS. THE SOLARSHELTER IS INTENDED TO SERVE AS A SHELTER FOR THE VARIOUS TASKS THAT ARE PLANNED TO BE DONE IN THE TERRITORY OF FLY RANCH AND AS A COLLECTOR OF SOLAR ENERGY.

THE SOLARSHELTER IS A STRUCTURE THAT IS DESIGNED TO BE FLEXIBLE. TO DO THIS WE THOUGHT OF A LIGHT AND MOVABLE STRUCTURE THAT IS SUPPORTED ON THE GROUND, TO BE ABLE TO COVER DIFFERENT AREAS OF SPACE ACCORDING TO THE REQUIREMENT OF USE AT THE TIME.

OPEN-SHELTER: FOR THIS WE DEVISED A ZERO-EMISSION SYSTEM, USED TO LIFT EACH OF THE PETALS/LAYERS THAT MAKES UP THE DOME, TO END UP FORMING A FLOWER-SHAPED COVER, WHICH MAINLY WORKS AS A FACILITY FOR MULTIPLE CULTURAL EVENTS, FOR WORK OR LEISURE ACTIVITIES IN THE FLY RANCH AREA, AND EVEN AS SUPPORT TO THE ACTIVITIES OF THE BURNING MAN FESTIVAL.

THE LIFTING SYSTEM WILL BE BASED ON A TRADITIONAL PULLEY SYSTEM, WHICH ALLOWS TO LIFT EACH OF THE PETALS AUTONOMOUSLY.

THIS SYSTEM WILL BE OPERATED BY THE USER MANUALLY. EACH OF THE PETALS HAS ITS OWN INDEPENDENT LIFTING SYSTEM, WHICH ALLOWS FOR MULTIPLE OPENING POSSIBILITIES.

CLOSED-SHELTER: THE VERSATILITY LIES IN ITS ADAPTABILITY. WITH THE PULLEY SYSTEM, WE CAN CONTROL THE OPENING ANGLE OF THE PETALS AND, IN THIS WAY, HAVE A SHELTER COMPLETELY OR SEMI-CLOSED TO PROTECT AGAINST INCLEMENT WEATHER AND NIGHT TEMPERATURE CHANGES.



COUNTERWEIGHT
CENTRAL AXIS
battery energy
storage
7,5 m diameter
height 5m

WICKIUP DOME
22 m diameter
height 6 m

